

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method of transmitting one or more data streams to a mobile terminal configured for simultaneous communication via a plurality of types of wireless communications channels ~~having multiple network connections~~, the method comprising ~~the steps of~~:

(i) sending the one or more data streams from a correspondent host to a home agent located in the home network of the mobile terminal, the mobile terminal sending a request for the data stream to be transmitted by the correspondent host and the mobile terminal communicating with the home agent to transmit the network location of the mobile terminal to the home agent; and

(ii) forwarding the one or more data streams to the mobile terminal, ~~characterised in that the mobile terminal communicates network connectivity data to the home agent and that the forwarding of the one or more data streams is dependent upon the network connectivity data received by the home agent.~~

wherein the mobile terminal sends to the home agent information about the current availability of different communications channels, the home agent selecting the appropriate communications channel in accordance with the type or characteristics of data to be communicated to the mobile terminal.

2. (currently amended) A-The method of transmitting one or more data streams to a-the mobile terminal as ~~elaimed~~ in claim 1, wherein in response to a change in the information about the current availability network connectivity data received by the home agent at least one of the data streams is forwarded by the home agent to a network cache, said at least one of the data stream(s)streams being stored in the network cache until the home agent forwards said at least one of the data stream(s)streams to the mobile terminal.

3. (currently amended) A-The method of transmitting one or more data streams to a-the mobile terminal as ~~elaimed~~ in claim 1, wherein the request sent by the mobile terminal to the correspondent host is sent via the home agent.

4. (currently amended) A-The method of transmitting one or more data streams to a-the mobile terminal as ~~elaimed~~ in claim 1, wherein all communication from the home agent to the mobile terminal is routed via a foreign agent, the foreign agent being located in a subnetwork to which the mobile terminal is connected.

5. (currently amended) A-The method of transmitting one or more data streams to a-the mobile terminal as ~~elaimed~~ in claim 1, wherein all

communication from the mobile terminal to the home agent is routed via a foreign agent, the foreign agent being located in a subnetwork to which the mobile terminal is connected.

6. (currently amended) ~~A~~The method of transmitting one or more data streams to ~~a~~the mobile terminal as ~~elaimed~~ in claim 1, wherein in response to a change in the information about current availability network connectivity data received by the home agent the information content of at least one of the data streams is reduced before being forwarded to the mobile terminal.

7. (currently amended) ~~A~~The method of transmitting one or more data streams to ~~a~~the mobile terminal as ~~elaimed~~ in claim 6, wherein the reduction of information content of the at least one of the data ~~stream(s)~~streams comprises the conversion from a first data format to a second data format having a lower resolution than the first data format.

8. (canceled)

9. (currently amended) A mobile communications terminal comprising:

an interface ~~to~~ configured for simultaneous communication via a plurality

of types of wireless communications channels to a plurality of networks;

means for transmitting and receiving data using one or more of the network interfaces; and

control means operative to send messages by way of the interface to a home agent about the current availability of different communications channels; and

means responsive to the home agent which selects a wireless communications channel on which to transmit and receive data concerning the availability of communications paths to the mobile terminal via at least one of said plurality of network interfaces.

10. (currently amended) A communications network comprising;

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a plurality of mobile communications subnetworks, some of said mobile communications subnetworks having overlapping geographical coverage; and

~~control means a home agent~~ operative such that ~~the~~ an associated mobile terminals can ~~each~~ be in simultaneous communication with more than one of the plurality of mobile communications subnetworks;

~~characterised in that wherein~~ the home agent comprises a receiver for receiving from the mobile terminal information relating to the current availability to the mobile terminal of different communications channels, the home agent selecting an appropriate communications channel with which to communicate with

the mobile terminal in accordance with the information relating to the current availability and the type or characteristics of data to be communicated to the mobile terminal.~~control means receives network connectivity data from each mobile terminal and routes data streams to each mobile terminal on the basis of the received network connectivity data from that terminal.~~

11.-14. (canceled)

15. (new) A computer program product readable by a computer, tangibly embodying a program of instructions executable by the computer to perform a method of transmitting one or more data streams to a mobile terminal configured for simultaneous communication via a plurality of types of wireless communication channels, the method comprising:

- (i) sending the one or more data streams from a correspondent host to a home agent located in a home network of the mobile terminal, the mobile terminal sending a request for the one or more data streams to be transmitted by the correspondent host and the mobile terminal communicating with the home agent to transmit the network location of the mobile terminal to the home agent; and
- (ii) forwarding the one or more data streams to the mobile terminal, wherein the mobile terminal sends to the home agent information about the current availability of different communications channels, the home agent

selecting the appropriate communications channel in accordance with the type or characteristics of data to be communicated to the mobile terminal.

16. (new) A computer program product as in claim 15, wherein the instructions executable by the computer provide a signal effective to register a mobile unit with a network and the signal comprises a Mobile IP registration packet comprising one or more Mobile IP extensions each comprising an Extension field and a Length field, wherein the one or more Mobile IP extensions comprise a Network Type Field and a Care-of-Address field.